

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: July 9, 1996

Date Received: July 3, 1996

Project: Metro Self Monitor, PO #M72406

Date Samples Extracted: July 5, 1996

Date Extracts Analyzed: July 8, 1996

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE
FOR CHROMIUM, COPPER, NICKEL, AND ZINC
USING METHOD 6010**

**Samples Processed Using Method 3005A
Results Reported as mg/L (ppm)**

<u>Sample ID</u>	<u>Chromium</u>	<u>Copper</u>	<u>Nickel</u>	<u>Zinc</u>
M72406	0.55	0.60	0.61	0.06
Method Blank	<0.05	<0.05	<0.05	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: July 9, 1996

Date Received: July 3, 1996

Project: Metro Self Monitor, PO #M72406

**QUALITY ASSURANCE RESULTS
FOR TOTAL METALS BY
INDUCTIVELY COUPLED PLASMA (ICP)
(METHOD 6010)**

Laboratory Code: 70470 (Duplicate)

Analyte:	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromium	mg/L (ppm)	0.55	0.52	6	0-20
Copper	mg/L (ppm)	0.60	0.56	7	0-20
Nickel	mg/L (ppm)	0.61	0.59	3	0-20
Zinc	mg/L (ppm)	0.06	0.05	18a	0-20

Laboratory Code: 70470 (Matrix Spike)

Analyte:	Reporting Units	Spike Level	Sample Result	% Recovery MS	% Recovery MSD	Acceptance Criteria	Relative Percent Difference
Chromium	mg/L (ppm)	5	0.55	101	98	80-120	3
Copper	mg/L (ppm)	5	0.60	100	98	80-120	2
Nickel	mg/L (ppm)	10	0.61	97	98	80-120	1
Zinc	mg/L (ppm)	5	0.06	97	99	80-120	2

Laboratory Code: Spike Blank

Analyte:	Reporting Units	Spike Level	% Recovery MS	% Recovery MSD	Acceptance Criteria	Relative Percent Difference
Chromium	mg/L (ppm)	5	102	108	80-120	6
Copper	mg/L (ppm)	5	103	105	80-120	2
Nickel	mg/L (ppm)	10	101	106	80-120	5
Zinc	mg/L (ppm)	5	102	106	80-120	4

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

a - The analyte was detected at a level less than five times the detection limit. The RPD results may not provide reliable information on the variability of the analysis.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D
Beth M. Albertson, M.S.
Bradley T. Benson
Kelley D. Wilt

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044

July 9, 1996

INVOICE # 96ACU0709-1
DUPLICATE COPY

Accounts Payable
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

RE: Project Metro Self Monitor, PO #M72406: Results of testing requested by
Gerry Thompson, Project Manager for material submitted on July 3, 1996.

1 water sample analyzed for
Chromium, Copper, Nickel, and Zinc
using Method 6010 @ \$65 per sample

\$ 65.00

Amount Due

\$ 65.00

KNS AI
7.3.96
1:50

Send Report To:

Contact GERALD THOMPSON

City, State, Zip Seattle, WA 98134

Phone # (206) 382-8375 Fax (206) 382-7335

Date 7-3-96

SITE NO.

PROJECT NAME

PURCHASE ORDER #

7238

~~NEED~~ Subscribe

m 72406

SAMPLERS (signature)

PROJECT LOCATION

[Handwritten signature]

3200 6th Ave S

REMARKS

SAMPLE DISPOSAL INFORMATION

☐ Dispose after 30 days
☒ Return Samples
☐ Call for Instructions

SIGNATURE	PRINT NAME	COMPANY	Date	Time
Relinquished by: <i>Rodney L. Pearson</i>	Rod Pearson	ACW	7/3/96	1340
Received by: <i>Cathy Lawring</i>	Cathy Lawring	FBI	7/3/96	1340
Relinquished by:				
Received by:				

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D
Beth M. Albertson, M.S.
Bradley T. Benson
Kelley D. Wilt

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044

July 9, 1996

Gerry Thompson, Project Manager
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

Dear Mr. Thompson:

Enclosed are the results from the testing of material submitted on July 3, 1996 from your Metro Self Monitor, PO #M72406 project.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Kurt Johnson
Chemist

keh
Enclosures
ACU0709R.DOC